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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR ·	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,514	12/03/2003	Martin Heeney	MERCK-2791	3769
23599 7590 11/21/2007 MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.			EXAMINER	
			WU, SHEAN CHIU	
SUITE 1400	VA 22201		ART UNIT	PAPER NUMBER
ARLINGTON, VA 22201			1795	
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	•		MAIL DATE	DELIVERY MODE
			11/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/725,514	HEENEY ET AL.		
Office Action Summary	Examiner	Art Unit		
	Shean C. Wu	1795		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 29 Oct 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice of the condition of the condi	action is non-final. ace except for formal matters, pro			
Disposition of Claims				
4)	7-28 and 36 is/are withdrawn fror e rejected.	n consideration.		
<u> </u>				
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the construction of the construction	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te		
Paper No(s)/Mail Date 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The notations X^1 and X^2 should be deleted because they are not part of formula I. In item (2), there is no support in the specification for the group X being a "1,4-naphthalene".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7, 10-11, 24-26, 33-34 and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tan et al. (US 6,359,149).

The reference discloses bithienylnaphthalene- and bis(3,4ethylenedioxythienyl)naphthalene-based monomers and polymers represented by the following formulae 10/725,514 Art Unit: 1795

$$R_2$$
 R_3 R_2 R_3

wherein R_1 , R_2 and R_3 are selected from the group consisting of -H, $-O(CH_2)_nCH_3$,

wherein n has a value of 0 to 11 and m has a value of 1 to 4, and wherein no more than one of R_2 and R_3 is —H. Also provided are polymers resulting from the electropolymerization of these monomers.

The reference further discloses that the reference conducting monomer and polymers are useful for electrodes in various electronic display devices (col. 1, lines 15-20 and col. 10, lines 21-28). The reference polymers have the following structures

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wherein R_1 , R_2 and R_3 are as previously defined and n is an integer indicating the degree of polymerization and having a value of at least 1. The ethylenedioxythiophene-containing polymers have similar structures.

The reference examples 5-7 and 9-13 read on the present formula I (claim1), formula Ic (claim 2), formula IIb (claims 11 and 40) and formula IIc (claim 41).

The reference differs from the claims in that the present invention claims as a transistor device containing a semiconductor or charge transfer material comprising at least one mono-, oligo- or polymer of formula I. Because the conducting materials (mono- or polymer) are known and useful in the semiconductor field-effect transistor (see JP 05-312746 (abstract) or US 6,455,873 (col. 3, lines 36-38), therefore, it would have been obvious to those skilled in the art to utilize the reference conducting materials and apply in the transistor device to arrive at the claimed invention.

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Response to Arguments

- 4. Applicant's arguments, see Remarks, filed 10/29/07, with respect to the rejections in the previous Office action have been fully considered and are persuasive in light of the newly amended claims by excluding the materials of the references cited in the previous Office action. Therefore, the rejections have been withdrawn. However, upon further consideration, new grounds of rejection are made in the sections 1 and 3 above.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 10:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Shean C Wu/ Shean C Wu Primary Examiner Art Unit 1795

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